

# Implementing an altmetrics reporting service into DSpace using Altmetric.com

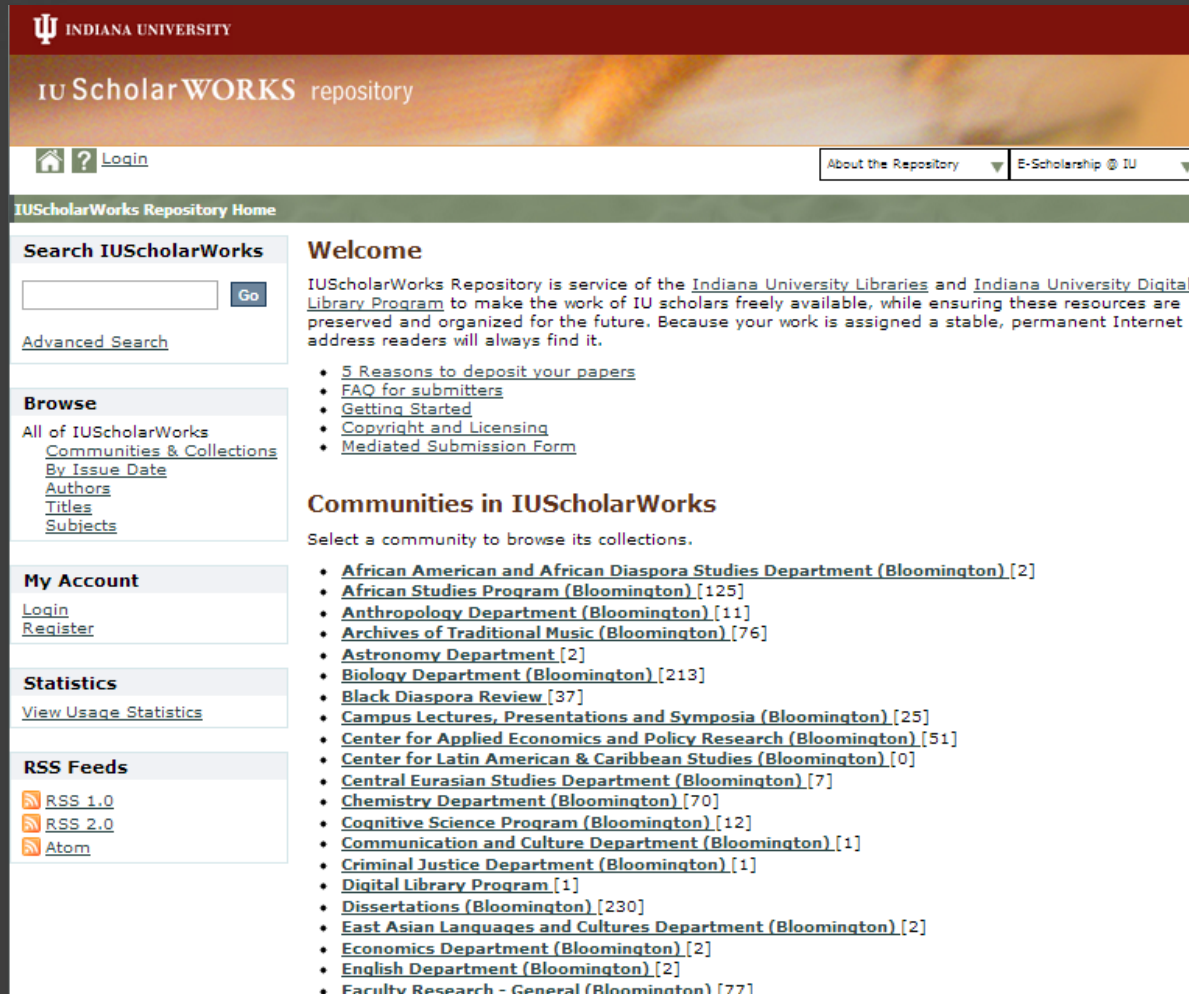
Jim Halliday & Stacy Konkiel,  
Indiana University Libraries

Euan Adie, Altmetric.com

# Overview

- IUScholarWorks Repository
- Altmetrics basics
- Altmetric.com
- Integrating Altmetric.com and DSpace
- Live Demo
- Further work
- Discussion

# IUScholarWorks Repository



The screenshot shows the IUScholarWorks Repository homepage. At the top is a red header with the Indiana University logo and the text "IU ScholarWORKS repository". Below this is a navigation bar with a home icon, a login link, and dropdown menus for "About the Repository" and "E-Scholarship @ IU". The main content area is divided into a left sidebar and a main body. The sidebar contains sections for "Search IUScholarWorks" (with a search box and "Go" button), "Browse" (with links to "All of IUScholarWorks", "Communities & Collections", "By Issue Date", "Authors", "Titles", and "Subjects"), "My Account" (with "Login" and "Register" links), "Statistics" (with a "View Usage Statistics" link), and "RSS Feeds" (with links for "RSS 1.0", "RSS 2.0", and "Atom"). The main body features a "Welcome" message, a paragraph about the repository's purpose, a list of links for depositing papers, a "Communities in IUScholarWorks" section with a list of departments and their item counts, and a "Select a community to browse its collections." prompt.

**Search IUScholarWorks**

**Go**

[Advanced Search](#)

**Browse**

All of IUScholarWorks  
[Communities & Collections](#)  
[By Issue Date](#)  
[Authors](#)  
[Titles](#)  
[Subjects](#)

**My Account**

[Login](#)  
[Register](#)

**Statistics**

[View Usage Statistics](#)

**RSS Feeds**

[RSS 1.0](#)  
[RSS 2.0](#)  
[Atom](#)

**Welcome**

IUScholarWorks Repository is service of the [Indiana University Libraries](#) and [Indiana University Digital Library Program](#) to make the work of IU scholars freely available, while ensuring these resources are preserved and organized for the future. Because your work is assigned a stable, permanent Internet address readers will always find it.

- [5 Reasons to deposit your papers](#)
- [FAQ for submitters](#)
- [Getting Started](#)
- [Copyright and Licensing](#)
- [Mediated Submission Form](#)

**Communities in IUScholarWorks**

Select a community to browse its collections.

- [African American and African Diaspora Studies Department \(Bloomington\)](#) [2]
- [African Studies Program \(Bloomington\)](#) [125]
- [Anthropology Department \(Bloomington\)](#) [11]
- [Archives of Traditional Music \(Bloomington\)](#) [76]
- [Astronomy Department](#) [2]
- [Biology Department \(Bloomington\)](#) [213]
- [Black Diaspora Review](#) [37]
- [Campus Lectures, Presentations and Symposia \(Bloomington\)](#) [25]
- [Center for Applied Economics and Policy Research \(Bloomington\)](#) [51]
- [Center for Latin American & Caribbean Studies \(Bloomington\)](#) [0]
- [Central Eurasian Studies Department \(Bloomington\)](#) [7]
- [Chemistry Department \(Bloomington\)](#) [70]
- [Cognitive Science Program \(Bloomington\)](#) [12]
- [Communication and Culture Department \(Bloomington\)](#) [1]
- [Criminal Justice Department \(Bloomington\)](#) [1]
- [Digital Library Program](#) [1]
- [Dissertations \(Bloomington\)](#) [230]
- [East Asian Languages and Cultures Department \(Bloomington\)](#) [2]
- [Economics Department \(Bloomington\)](#) [2]
- [English Department \(Bloomington\)](#) [2]
- [Faculty Research - General \(Bloomington\)](#) [77]

Founded 2006

DSpace 3.1

XMLUI

Mirage-based  
theme

10000 Items

# IUScholarWorks Repository

The screenshot shows the IUScholarWorks Repository website. The header includes the Indiana University logo and the repository name. The main navigation bar contains links for Home, Indiana University Libraries (Bloomington), Conference Papers and Presentations - IU Libraries (Bloomington), and Statistics. The left sidebar has sections for Search IUScholarWorks (with a search box and 'Go' button), Browse (with links for All of IUScholarWorks, Communities & Collections, By Issue Date, Authors, Titles, Subjects, and This Collection), My Account (with Login and Register links), and Statistics (with a link to View Usage Statistics). The main content area displays the Statistics section, including Total Views, Total Views Per Month, Downloads, and Top country views.

**Search IUScholarWorks**

☒ Search IUScholarWorks  
☐ This Collection  
[Advanced Search](#)

**Browse**

All of IUScholarWorks  
[Communities & Collections](#)  
[By Issue Date](#)  
[Authors](#)  
[Titles](#)  
[Subjects](#)

This Collection  
[By Issue Date](#)  
[Authors](#)  
[Titles](#)  
[Subjects](#)

**My Account**  
[Login](#)  
[Register](#)

**Statistics**  
[View Usage Statistics](#)

**Statistics**  
**Total Views**

	Total
Altmetrics and Librarians: How Changes in Scholarly Communication will affect our Profession	1162

**Total Views Per Month**

	December 2012	January 2013	February 2013	March 2013	April 2013	May 2013	June 2013
Altmetrics and Librarians: How Changes in Scholarly Communication will affect our Profession	556	125	94	75	54	81	25

	June 2012	July 2012	August 2012	September 2012	October 2012	November 2012
Altmetrics and Librarians: How Changes in Scholarly Communication will affect our Profession	16	17	22	27	33	19

**Downloads**

	Total
Konkiel Noel - Altmetrics and Librarians - In-House.pptx	227
license.txt	31

**Top country views**

## Usage stats

- Added 2012
- Page views
- Downloads
- Robots filter
- Uses DSpace log files

# altmetrics

**Altmetrics = “Alternative metrics”**

Track the usage and sharing of scholarly outputs on the social web

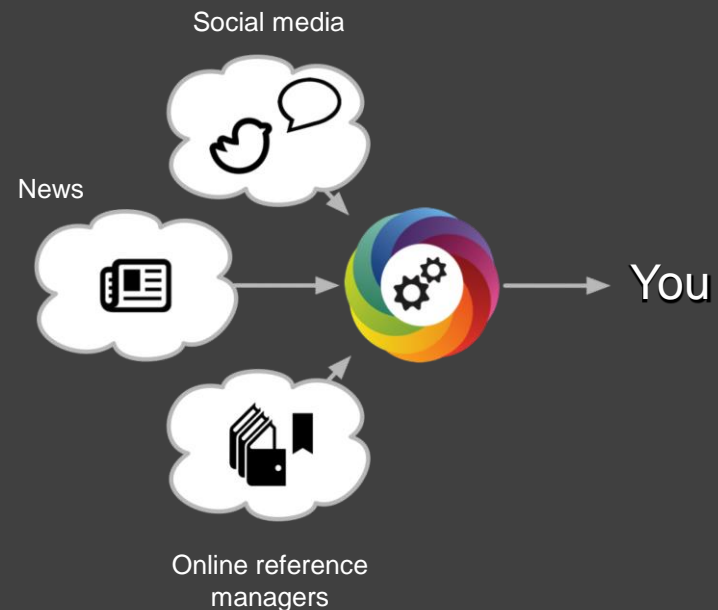


(Image via <http://altmetrics.org/manifesto/>)



## What does Altmetric do?

- Measures the online attention surrounding journal articles and datasets.
- Collect and deliver article-level metrics to publishers, libraries, repositories, researchers, and more.

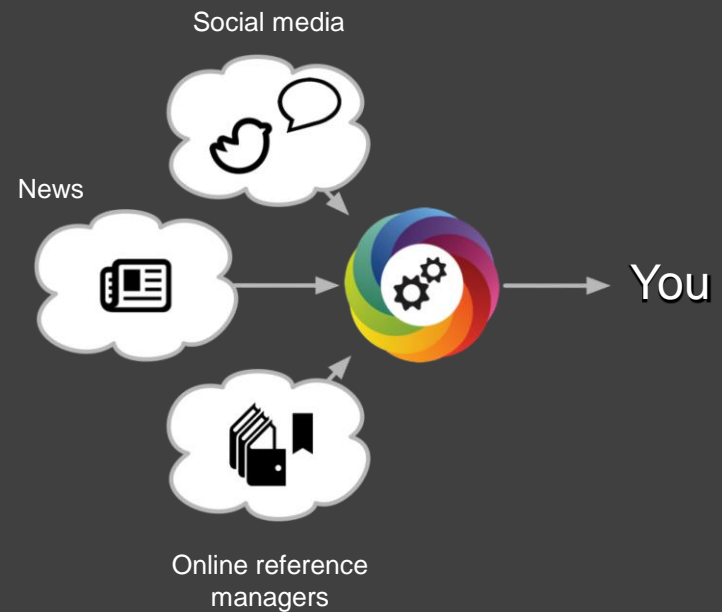


(Liu & Adie, 2013)



## How does Altmetric work?

- Bookmarklet
- Altmetric Explorer
- Embeddable Badges
- API Access



(Liu & Adie, 2013)



## Altmetric “badges”

- Displayed on journal and repository websites
- Embedded via javascript
- DOI or other identifier passed in as a parameter

### Online attention



#### Altmetric score (what's this?)

Tweeted by 13
On 1 Facebook pages
0 readers on Mendeley
0 readers on CiteULike
0 readers on Connotea

#### This Altmetric score means that the article is:

- in the 90 percentile of a sample of 10,000 of the 31,481 tracked articles of a similar age in all journals
- in the 35 percentile (ranked 348th) of the 535 tracked articles of a similar age in *Nature*

### Statistics

[View Usage Statistics](#)



(Via <http://bit.ly/13YtCxT>)

(Via <http://bit.ly/11JbVQ1>)



# Integration with IUScholarWorks

## Issues

- Getting access to Altmetric
- DOI vs. Handle
- Altmetric badge on XMLUI
- IU-branded landing page
- Allowing authors control over displaying metrics for their deposits

# Integration with IUScholarWorks

## Issues

- Getting access to Altmetric
- DOI vs. Handle
- Altmetric badge on XMLUI
- IU-branded landing page
- Allowing authors control over displaying metrics for their deposits

“Altmetrics in libraries and institutional repositories,”  
Altmetric Blog,  
<http://go.iu.edu/7IM>

# Integration with IUScholarWorks

## Issues

- Getting access to Altmetric
- DOI vs. Handle
- Altmetric badge on XMLUI
- IU-branded landing page
- Allowing authors control over displaying metrics for their deposits

# Integration with IUScholarWorks

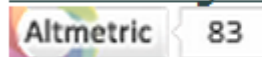
## Issues

- Getting access to Altmetric
- DOI vs. Handle
- **Altmetric badge on XMLUI**
- IU-branded landing page
- Allowing authors control over displaying metrics for their deposits

The screenshot shows the IUScholarWorks repository interface. The header includes the Indiana University logo and the repository name. The main content area displays the article title, authors, and a list of keywords. A red circle highlights the 'Statistics' section in the left sidebar, which includes a link to 'View Usage Statistics' and an Altmetric badge showing a score of 83.

## Statistics

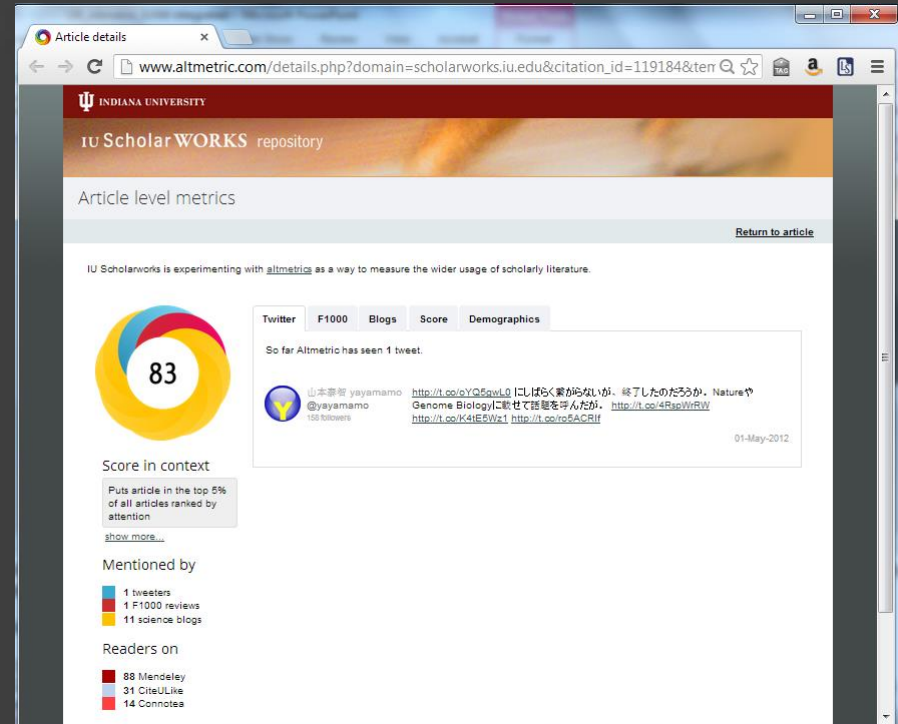
[View Usage Statistics](#)



# Integration with IUScholarWorks

## Issues

- Getting access to Altmetric
- DOI vs. Handle mapping
- Altmetric badge on XMLUI
- **IU-branded landing page**
- Allowing authors control over displaying metrics for their deposits



# Integration with IUScholarWorks

## Issues

- Getting access to Altmetric
- DOI vs. Handle mapping
- Altmetric badge on XMLUI
- IU-branded landing page
- **Allowing authors control over displaying metrics for their deposits**

The screenshot shows the IU ScholarWorks metadata editor. On the left is a sidebar menu with options: Access Control, People, Groups, Authorizations, Registries, Metadata, Format, Items, Withdrawn Items, Private Items, Control Panel, Statistics, Import Metadata, and Curation Tasks. The main area contains several sections: 'Rights URL' with a text box and a description of the field; 'Description' with a text box; and 'Altmetrics Display' with a dropdown menu set to 'true' and a tooltip that reads 'Select whether or not to display public altmetrics data for this item.' At the bottom are buttons for '< Previous', 'Save & Exit', and 'Next >'.

This is a close-up of the 'Altmetrics Display' section. It includes the title 'Altmetrics Display:', the instruction 'Select whether or not to display public altmetrics data for this item.', a dropdown menu with 'true' selected, and a tooltip with the same instruction. Below the dropdown are buttons for '< Previous', 'Save & Exit', and 'Next >'.

# Integration with IUScholarWorks

## Technical Details

- New metadata element to hold altmetrics display toggle
- New config value to turn on altmetrics overall
- Edited input-forms.xml to show display toggle on item ingest
- Theme changes to add altmetric badge and link it to item handle
- Change in Navigation.java to control placement of badge

# Future work

- Release code publicly
- Integration with DSpace stats page
- User testing & deployment
- Ranked lists for IR content
- Author profiles
- Exporting data for business analysis



# Discussion



## Get in touch.

Email Jim: [jhallida@indiana.edu](mailto:jhallida@indiana.edu)

Email Stacy: [skonkiel@indiana.edu](mailto:skonkiel@indiana.edu)

E-mail Euan: [ewan@altmetric.com](mailto:ewan@altmetric.com)

Explore the Altmetric API: <http://api.altmetric.com/>

Follow Altmetric on Twitter: [@altmetric](https://twitter.com/altmetric)

Source code and documentation: <https://wiki.dlib.indiana.edu/x/rl22Hg>

Slides and Abstract: <http://hdl.handle.net/2022/16667>

## Thanks to Jean Liu (Altmetric)

Liu J & Adie E. "Altmetric: Getting Started with Article-Level Metrics." Presentation available at <http://www.slideshare.net/altmetric/>